VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES PATENTWESENS

PCT

REC'D 2 3 FEB 2005

INTERNATIONALER VORLÄUFIGER PRÜFUNGSBERICHT PCT

(Artikel 36 und Regel 70 PCT)

Aktenzeichen des Anmelders oder Anwalts				
B02/0506PCcd WI	Siehe Mitteilung über die Übersendung des internationalen vorläufigen Prüfungsberichts (Formblatt PCT/IPEA/416)			
	ernationales Anmeldedatum (TagMonatlJahr) Prioritätsdatum (TagMonatlJahr)			
	.10.2003 23.10.2002			
Internationale Patentklassifikation (IPK) oder natio B01J23/06	onale Klassifikation und IPK			
Anmelder				
BASF AKTIENGESELLSCHAFT et al.				
Dieser internationale vorläufige Prüfung beauftragten Behörde erstellt und wird	gsbericht wurde von der mit der internationalen vorläufigen Prüfung dem Anmelder gemäß Artikel 36 übermittelt.			
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2. Dieser BERICHT umfaßt insgesamt 4	Blätter einschließlich dieses Deckblatts.			
und/oder Zeichnungen, die geänd	NLAGEN bei; dabei handelt es sich um Blätter mit Beschreibungen, Ansprüchen dert wurden und diesem Bericht zugrunde liegen, und/oder Blätter mit vor dieser			
Behörde vorgenommenen Berich PCT).	ntigungen (siehe Regel 70.16 und Abschnitt 607 der Verwaltungsrichtlinien zum			
Diese Anlagen umfassen insgesamt 2	Blätter.			
•				
3. Dieser Bericht enthält Angaben zu folg	enden Punkten:			
I 🖾 Grundlage des Bescheids				
II ☐ Priorität				
	achtens über Neuheit, erfinderische Tätigkeit und gewerbliche Anwendbarkeit			
	ner Errindung ach Regel 66.2 a)ii) hinsichtlich der Neuheit, der erfinderischen Tätigkeit und der			
gewerblichen Anwendbarke	eit; Unterlagen und Erklärungen zur Stützung dieser Feststellung			
VI Bestimmte angeführte Unte				
_	VII ☐ Bestimmte Mängel der internationalen Anmeldung			
VIII D Bestimmte Bemerkungen zur internationalen Anmeldung				
Datum der Einreichung des Antrags Datum der Fertigstellung dieses Berichts				
21.05.2004				
21.05.2004 21.02.2005				
Name und Postanschrift der mit der internationaler beauftragten Behörde	n Prüfung Bevollmächtigter Bediensteter			
Europäisches Patentamt D-80298 München	and the same of th			
Tel. +49 89 2399 - 0 Tx: 523656 epi Fax: +49 89 2399 - 4465	mu d Holzwarth, A			

INTERNATIONALER VORLÄUFIGER PRÜFUNGSBERICHT

Internationales Aktenzeichen PCT/EP 03/11410

۱.	Gri	ındl	ane	des	Rer	ichts
1.	aıı	mu	aue	ues	Dei	ICHILO

1. Hinsichtlich der **Bestandteile** der internationalen Anmeldung (Ersatzblätter, die dem Anmeldeamt auf eine Aufforderung nach Artikel 14 hin vorgelegt wurden, gelten im Rahmen dieses Berichts als "ursprünglich eingereicht" und sind ihm nicht beigefügt, weil sie keine Änderungen enthalten (Regeln 70.16 und 70.17)):

	Bes	chreibung, Seiten		
	1-7		in der ursprünglich eingereichten Fassung	
	Δns	prüche, Nr.		
	1-14	•	eingegangen am 21.05.2004 mit Schreiben vom 18.05.2004	
2.	Hinsichtlich der Sprache : Alle vorstehend genannten Bestandteile standen der Behörde in der Sprache, in die internationale Anmeldung eingereicht worden ist, zur Verfügung oder wurden in dieser eingereicht, sofei unter diesem Punkt nichts anderes angegeben ist.			
		Bestandteile standen ereicht; dabei handel	der Behörde in der Sprache: zur Verfügung bzw. wurden in dieser Sprache It es sich um:	
		die Sprache der Übe (nach Regel 23.1(b))	ersetzung, die für die Zwecke der internationalen Recherche eingereicht worden ist	
		die Veröffentlichungs	ssprache der internationalen Anmeldung (nach Regel 48.3(b)).	
			rsetzung, die für die Zwecke der internationalen vorläufigen Prüfung eingereicht gel 55.2 und/oder 55.3).	
3. Hinsichtlich der in der internationalen Anmeldung offenbarten Nucleotid- und/oder Aminosäurese internationale vorläufige Prüfung auf der Grundlage des Sequenzprotokolls durchgeführt worden, d				
☐ in der internationalen Anmeldung in schriftlicher Form enthalten ist.				
		zusammen mit der ir	nternationalen Anmeldung in computerlesbarer Form eingereicht worden ist.	
		bei der Behörde nac	hträglich in schriftlicher Form eingereicht worden ist.	
		bei der Behörde nach	hträglich in computerlesbarer Form eingereicht worden ist.	
		Die Erklärung, daß d Offenbarungsgehalt	las nachträglich eingereichte schriftliche Sequenzprotokoll nicht über den der internationalen Anmeldung im Anmeldezeitpunkt hinausgeht, wurde vorgelegt.	
		Die Erklärung, daß d Sequenzprotokoll en	lie in computerlesbarer Form erfassten Informationen dem schriftlichen itsprechen, wurde vorgelegt.	
4.	Aufo	grund der Änderunge	n sind folgende Unterlagen fortgefallen:	
		Beschreibung,	Seiten:	
		Ansprüche,	Nr.:	
		Zeichnungen,	Blatt:	
5.		angegebenen Gründ	ne Berücksichtigung (von einigen) der Änderungen erstellt worden, da diese aus den len nach Auffassung der Behörde über den Offenbarungsgehalt in der ursprünglich ng hinausgehen (Regel 70.2(c)).	
		(Auf Ersatzblätter, di beizufügen.)	ie solche Änderungen enthalten, ist unter Punkt 1 hinzuweisen; sie sind diesem Berich	

INTERNATIONALER VORLÄUFIGER PRÜFUNGSBERICHT

Internationales Aktenzeichen

PCT/EP 03/11410

- 6. Etwaige zusätzliche Bemerkungen:
- V. Begründete Feststellung nach Artikel 35(2) hinsichtlich der Neuheit, der erfinderischen Tätigkeit und der gewerblichen Anwendbarkeit; Unterlagen und Erklärungen zur Stützung dieser Feststellung

1. Feststellung

Neuheit (N) Ja: Ansprüche 1-14

Nein: Ansprüche

Erfinderische Tätigkeit (IS) Ja: Ansprüche 1-14

Nein: Ansprüche

Gewerbliche Anwendbarkeit (IA) Ja: Ansprüche: 1-14

Nein: Ansprüche:

2. Unterlagen und Erklärungen:

siehe Beiblatt

Zu Punkt I

Grundlage des Bescheides

Es wird auf die folgenden Dokumente verwiesen:

D3: WO 94 00232 A (EXXON CHEMICAL PATENTS INC) 6. Januar 1994 (1994-01-06) in der Anmeldung erwähnt

Zu Punkt V

Begründete Feststellung nach Regel 66.2(a)(ii) hinsichtlich der Neuheit, der erfinderischen Tätigkeit und der gewerblichen Anwendbarkeit; Unterlagen und Erklärungen zur Stützung dieser Feststellung

D3 (nächster Stand der Technik; Ansprüche 1, 3, 6) offenbart ein Regenerierungsverfahren für einen Katalysator zur Gasphasenselektivhydrierung von Acetylen, das Strippen mit einem Gemisch aus Wasserstoff und Stickstoff bei höheren Temperaturen (315 °C bis 400 °C) als in Anspruch 1 der Anmeldung (50 °C - 300 °C) vorsieht.

In der Anmeldung wird nachgewiesen, daß Strippen bei Temperaturen oberhalb des beanspruchten Temperaturbereichs (bei 300 °C und 400 °C) nachteilig ist.

Der Gegenstand des Anspruches 1 und der abhängigen Ansprüche 2-14 ist somit neu und beinhaltet eine erfinderische Tätigkeit.

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PCT/EP 03/11410 18. Mai 2004

Patentansprüche

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- 1. Verfahren zur Regenerierung eines Hydrierkatalysators, gebildet aus einer Aktivmasse, die auf einem nicht porösen, metallischen Träger aufgebracht ist und der in einer Gasphasen-Selektivhydrierung von Acetylen aus einem C₂-Schnitt oder von Propin und/oder Propadien aus einem C₃-Schnitt eingesetzt worden war, durch Strippen mit einer Substanz oder einem Substanzgemisch, das unter Verfahrensbedingungen keine oxidierende Wirkung hat und in gasförmigem Aggregatzustand vorliegt, bei einer Temperatur im Bereich von 50 bis 300°C.
- Verfahren nach Anspruch 1, dadurch gekennzeichnet, dass der metallische Träger als
 Gewebe oder Gestrick vorliegt.
 - 3. Verfahren nach Anspruch 1 oder 2, dadurch gekennzeichnet, dass man die Substanz oder das Substanzgemisch, die (das) man zum Strippen einsetzt, aus der nachfolgenden Gruppe auswählt: Wasserstoff, Stickstoff, Argon, Kohlenwasserstoffe, bevorzugt gesättigte Kohlenwasserstoffe, besonders bevorzugt Methan.
 - 4. Verfahren nach Anspruch 3, dadurch gekennzeichnet, dass man zum Strippen Stickstoff oder ein Gemisch aus Stickstoff und Wasserstoff einsetzt.

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- 5. Verfahren nach einem der Ansprüche 1 bis 4, dadurch gekennzeichnet, dass man das Strippen bei einer Temperatur im Bereich von 70 bis 250°C, bevorzugt bei einer Temperatur im Bereich von 100 bis 150°C, durchführt.
- 30 6. Verfahren nach einem der Ansprüche 1 bis 5, dadurch gekennzeichnet, dass man zusätzlich zum Strippen den Hydrierkatalysator mit einem bevorzugt unpolaren organischen Lösungsmittel oder Lösungsmittelgemisch abspült.
 - 7. Verfahren nach Anspruch 6, dadurch gekennzeichnet, dass man das Abspülen bei Umgebungstemperatur durchführt.

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- 8. Verfahren nach Anspruch 6 oder 7, dadurch gekennzeichnet, dass man das Abspülen über eine Dauer von 15 Minuten bis zu mehreren Tagen durchführt.
- Verfahren nach einem der Ansprüche 6 bis 8, dadurch gekennzeichnet, dass man das
 Verfahren in situ durchführt, bevorzugt in überstehendem Lösungsmittel und/oder in im Kreis gepumptem Lösungsmittel.
 - 10. Verfahren nach einem der Ansprüche 6 bis 8, dadurch gekennzeichnet, dass man es ex situ durchführt, bevorzugt in überstehendem Lösungsmittel und/oder in im Kreis geführtem Lösungsmittel, bevorzugt mit zusätzlicher Gaseinperlung und/oder mit Ultraschall.
 - 11. Verfahren nach einem der Ansprüche 6 bis 10, dadurch gekennzeichnet, dass man den Hydrierkatalysator zuerst abspült und anschließend strippt.
 - 12. Verfahren zur wiederholten Regenerierung eines Hydrierkatalysators, dadurch gekennzeichnet, dass man den Hydrierkatalysator zwei oder mehrere Male durch Strippen nach einem der Ansprüche 1 bis 5 oder durch Abspülen und Strippen nach einem der Ansprüche 6 bis 11 und anschließend durch oxidative Behandlung oder eine Kombination von Strippen nach einem der Ansprüche 1 bis 5 oder Abspülen und Strippen nach einem der Ansprüche 6 bis 11 und oxidative Behandlung regeneriert.
- 13. Verfahren nach einem der Ansprüche 1 bis 12, dadurch gekennzeichnet, dass der
 25 Hydrierkatalysator ein Dünnschichtkatalysator ist.
 - 14. Verfahren nach Anspruch 13, dadurch gekennzeichnet, dass der Hydrierkatalysator aus einer Aktivmasse gebildet ist, umfassend ein oder mehrere hydrieraktive Metalle, bevorzugt Palladium, besonders bevorzugt mit Silber dotiertes Palladium.

PATENT COOPERATION TREATY



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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aslati	P	CT		
INTERN	ATIONAL PRELIMIT	ARY EXAMIN	ATION REPORT	
	(PCT Article	36 and Rule 70)		
Applicant's or agent's file reference B02/0506PC	FOR FURTHER AC	TOTAL TOTAL	ication of Transmittal of Inte Examination Report (Form PCT/IP	
International application No. PCT/EP2003/011410	International filing da 15 October 200		Priority date (day/month/year) 23 October 2002 (23.10.	2002
International Patent Classification (IPC B01J 23/06	c) or national classification an	I IPC		
Applicant	BASF AKTIENG	ESELLSCHAFT		
and is transmitted to the application. This REPORT consists of a to	cant according to Article 36. tal of4 sheets	including this cover	national Preliminary Examining Au sheet. ion, claims and/or drawings which h	
70.16 and Section 607	of the Administrative Instruct of a total of2	ons under the PCT).	ations made before this Authority .	(see R
Basis of the re		113.		
II Priority	•			
	ment of opinion with regard t	novelty, inventive s	tep and industrial applicability	
IV Lack of unity	of invention	•		
V Reasoned state citations and e	ement under Article 35(2) wi explanations supporting such	h regard to novelty, is tatement	nventive step or industrial applicabi	lity;
VI Certain docun	nents cited			
VII Certain defect	s in the international applicat	on		
VIII Certain observ	vations on the international ap	plication		
		 		
Date of submission of the demand		Date of completion	of this report	
21 May 2004 (21	.05.2004)	21 F	Pebruary 2005 (21.02.2005)	
Name and mailing address of the IPE	A/EP	Authorized officer		
Facsimile No		Telephone No.		

International application No.

PCT/EP2003/011410

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

the description, pages the claims, Nos. the drawings, sheets/fig This report has been established as if (some of) the amendments had not been made since they have been considered to accommodate.	I. Basi	s of the r	eport	•	
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pages			1.7		, as originally filed
the claims: pages		pages			
the claims: pages		pages	, file		
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pages 1-14 , filed with the letter of 21 May 2004 (21.05.2004) the drawings:					
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·	in t	lacement his repor	sheets which have been furnished to the receiving Office in	response to an invitat	ion under Article 14 are referred to contain amendments (Rule 70.16
•		•	nent sheet containing such amendments must be referred to u	ınder item 1 and annex	ed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 03/11410

I.	Basis	of the	report
1.	Masis	OX THE	TCDOTE

1. This report has been drawn on the basis of (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

Reference is made to the following document:

D3: WO 94 00232 A (EXXON CHEMICAL PATENTS INC) 6 January 1994 (1994-01-06), mentioned in the application

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 03/11410

v.	Reasoned statement under Article 3 citations and explanations supporting	5(2) with regard to novelty, ag such statement	inventive step or industrial app	licability;
1.	Statement			
	Novelty (N)	Claims	1-14	YES
		Claims		NO
	Inventive step (IS)	Claims	1-14	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-14	YES
		Claims		NO

2. Citations and explanations

Document D3 (closest prior art with respect to claims 1, 3 and 6) discloses a regeneration process for a catalytic converter for the gas-phase selective hydrogenation of acetylene, which provides for stripping with a mixture of hydrogen and nitrogen at higher temperatures (315°C to 400°C) than in claim 1 of the application (50°C to 300°C).

It is shown in the application that stripping at temperatures above the claimed temperature range (at 300°C and 400°C) has disadvantageous effects.

Therefore, the subject matter of claim 1 and of dependent claims 2-14 is novel and involves an inventive step.